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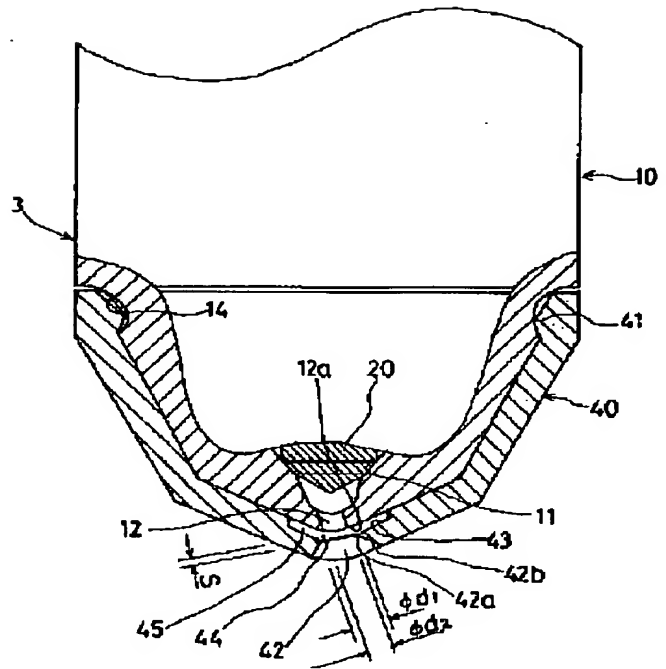
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APPLICANT : NIPPONDENSO CO LTD;

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TITLE : FUEL INJECTION NOZZLE



ABSTRACT : PURPOSE: To provide a fuel injection nozzle having a few time dependent change in a spray property.

CONSTITUTION: A needle body 10 is formed with a jet 12 extending from the lower end of a valve seat 11 and a socket 40 having a through hole 42 coaxial with the jet 12 is mounted to the tip of the needle body 10. The diameter of the upstream side jet end 42a of a tapered surface 42b of the inner peripheral wall of a socket 40 formed with the through hole 42 is somewhat larger than the diameter of the jet 12. A gap 44 and a space part 45 following a gap 44 are formed between the through hole 42 and jet 12 by a recess 43 formed following the periphery of the upstream side jet end 42a. Immediately after the completion of jet, fuel is scraped up by the upstream side jet end 42a to deposit on the tapered surface 42b and intrude into the space part 45 from the gap 44 by wet-diffusion. Thus, fuel is prevented from deposition on the periphery of the jet 12 and the inner wall of the jet 12, the deposit accumulation caused by the carbonization of the deposit fuel is hardly produced and the amount regulating performance and spray performance of a fuel jet nozzle are stabilized.

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